PATENT COOPERATION TREATY

From the

NTERNATIONAL	SEARCHING	AUTHORITY

To: JANG, Seongku			PCT
19th Fl., KEC Building, #275-7, Yangjae Seoul 137-130 Republic of Korea	-dong, Seocho-ku	WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY	
			(PCT Rule 43bis.1)
		Date of mailing (day/month/year) 1	2 JULY 2005 (12.07.2005)
		FOR FURTHER AC	
Applicant's or agent's file reference PCA50318/HMY - 57			ee paragraph 2 below
International application No.	International filing date		Priority date(day/month/year)
PCT/KR2005/001021	08 APRIL 2005 (0		10 APRIL 2004 (10.04.2004)
International Patent Classification (IPC) of IPC7 A61K 47/00, A61P 9/10	or both national classifica	ation and IPC	정수
Applicant			2005. 7. 13
HANMI PHARM. CO., LTD. 6	et al		제일광장특허
			법문사무소
1. This opinion contains indications rela	ating to the following iter	ns:	
Box No. I Basis of the opi	nion		
Box No. II Priority	C i i	rd to novelty inventive	step and industrial applicability
		id to hovery, inventive	step and medical approximation
Box No. V Reasoned state	ment under Rule 43bis.1	(a)(i) with regard to nov	elty, inventive step or industrial applicability;
l —	citations and explanations supporting such statement		
	Box No. VI Certain documents cited		
	Box No. VII Certain defects in the international application Box No. VIII Certain observations on the international application		
Box No. VIII Certain observ.	ations on the memoria		
2. FURTHER ACTION If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1 bis(b) that written opinions of this International Searching Authority will not be so considered.			
If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later. For further options, see Form PCT/ISA/220.			
3. For further details, see notes to Form	PCT/ISA/220.		
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Name and mailing address of the ISA/KR Korean Intellectual Property Office 920 Dunsan-dong, Seo-gu, Daejeon 302-701, Republic of Korea

11 JULY 2005 (11.07.2005)

Date of completion of this opinion

Authorized officer LEE, Mi Jeong

Telephone No.82-42-481-5601



Facsimile No. 82-42-472-7140

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/KR2005/001021

Bo	x No. I Basis of this opinion
1.	With regard to the language, this opinion has been established on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.
	This opinion has been established on the basis of a translation from the original language into the following language, which is the language of a translation furnished for the purposes of international search (under Rules 12.3 and 23.1(b)).
2.	With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:
	a. type of material
	a sequence listing
	table(s) related to the sequence listing
	b. format of material
	on paper in electronic form
	in electionic form
	c. time of filing/furnishing
	contained in the international application as filed.
	filed together with the international application in electronic form.
	furnished subsequently to this Authority for the purposes of search.
3.	In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
4	. Additional comments:
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Box No. V	Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability;
	citations and explanations supporting such statement

Statement		
Novelty (N)	Claims 1-17	YES
	Claims	NO
Inventive step (IS)	Claims 1-17	YES
	Claims	NO
Industrial applicability (IA)	Claims 1 - 17	YES
	Claims	NO

2. Citations and explanations:

The following documents are referred to in this report:

D1: US 2002/0044962 A1 (18 Apr. 2002)

D2: US 5916595 A (29 Jun. 1999)

1. Novelty

Claims 1-17 of the present invention relate to a sustained release formulation for oral administration of an HMG-CoA reductase inhibitor comprising a solid dispersant including the HMG-CoA reductase inhibitor(Simvastatin, Lovastatin, etc.), a solubilizing agent(d-alphatocopheryl polyethylene glycol 1000 succinate, etc.), and a stabilizing agent(butylated hydroxytoluene, etc.); a sustained release composite carrier(sodium alginate, etc.); and a gel hydration accelerator(propylene glycol ester alginate, hydroxypropyl methyl cellulose, etc.), and a preparation method thereof.

D1 discloses a controlled release encapsulated product including HMG-CoA reductase inhibitor, at least one erodible polymer(hydroxyethyl cellulose, propylene glycol alginate, sodium alginate, etc.) and at least one lubricating material.

D2 discloses a controlled release formulation of a HMG-CoA reductase inhibitor which is based on a combination of (a) a compressed tablet core which contains an alkyl ester of a hydroxy substituted naphthalene derivative, water swellable polymer and an osmotic agent; and (b) an outer coating layer which completely covers the osmotic core and comprises a pH sensitive coating agent and a water insoluble polymer.

Neither of D1 and D2 discloses the said sustained release formulation of a HMG-CoA reductase inhibitor and a preparation method thereof in the present invention.

Therefore, claims 1-17 of the present invention are considered to be novel over D1 and D2 [Article 33(2) PCT].

2. Inventive Step

There is no implication or suggestion to lead those who skilled in the art to expect that (Continued on the Supplemental Sheet.)

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Supplemental Box	
n case the space in any of the preceding boxes is not sufficient. ontinuation of:	
Box V.	
a solubilizing agent, a stabilizing agent, a sustained release composite carrier, and a gel hydration accelerator can be combined together to make a sustained release formulation of a HMG-CoA reductase inhibitor, in D1 and D2.	
Therefore, the inventive step of claims 1-17 can be acknowledged over D1 and D2 [Article 33(3) PCT].	
3. Industrial Applicability	
The subject-matter of claims 1-17 appears to be industrially applicable [Article 33(4) PCT].	